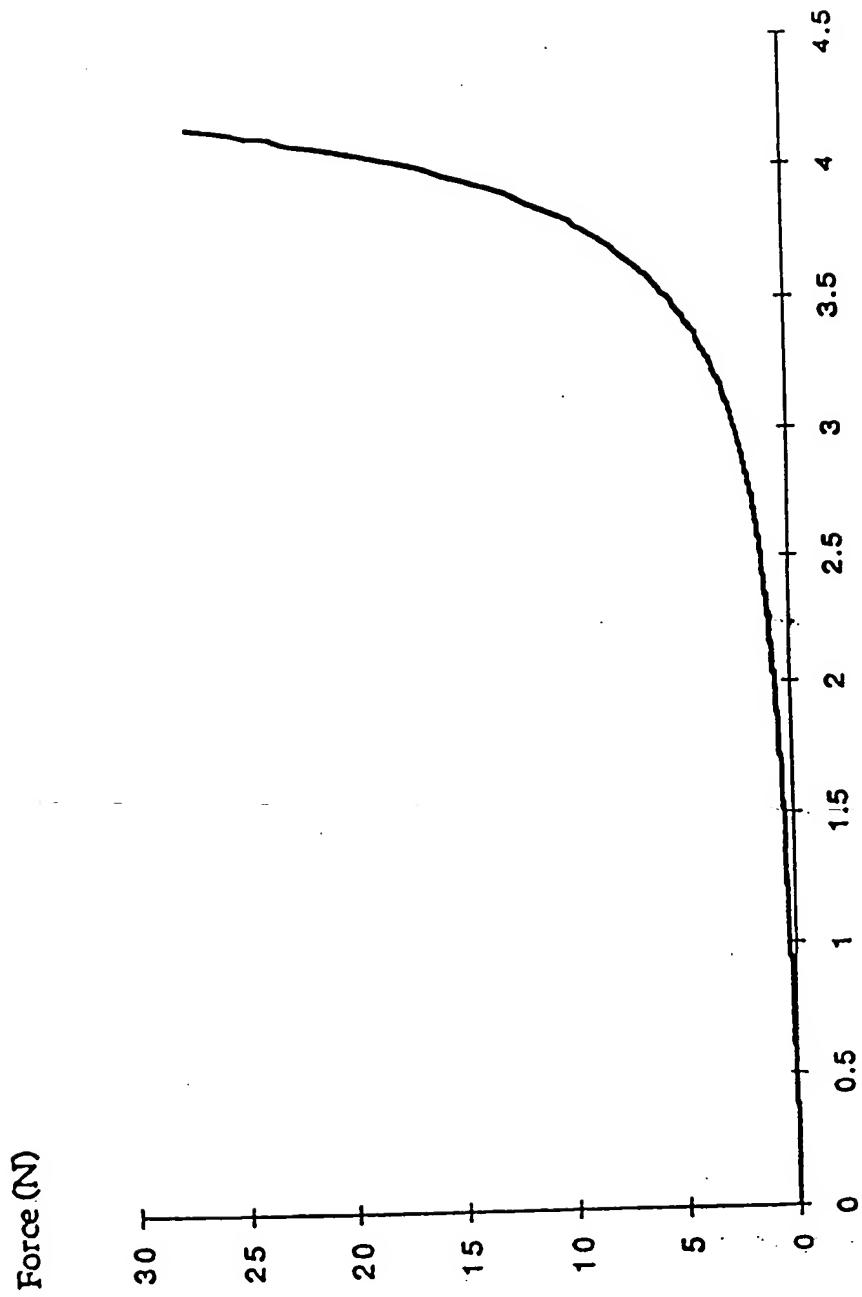


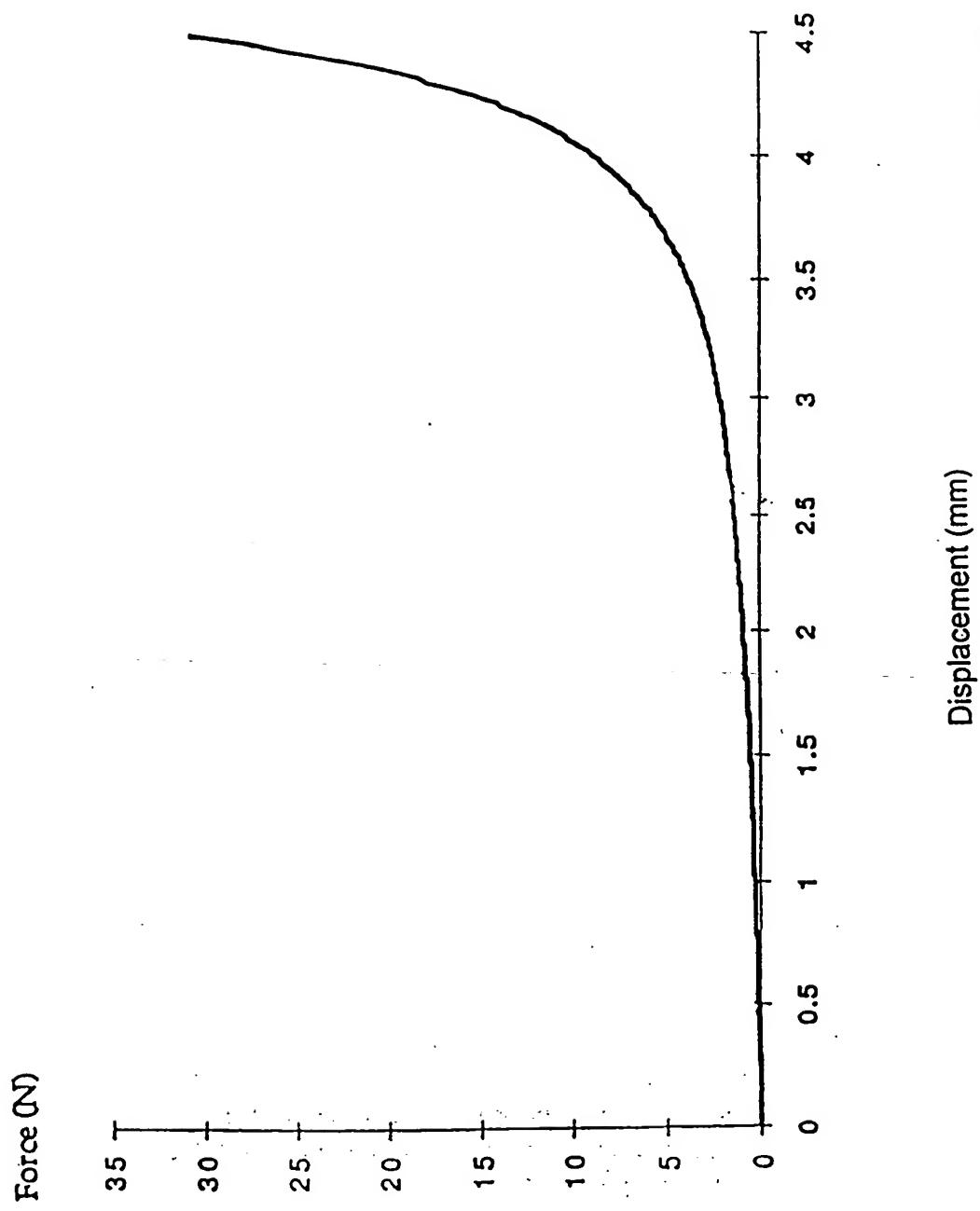
Compression of 5 mm disk (5 mm diameter) at 2 mm/min



Displacement (mm)

Fig. 1

Compression of 5 mm disk (5 mm diameter) at 2 mm/min



## Diamine

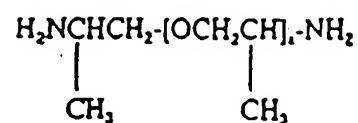


Fig. 3a

## Triamine

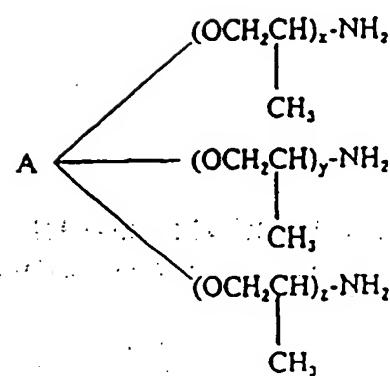
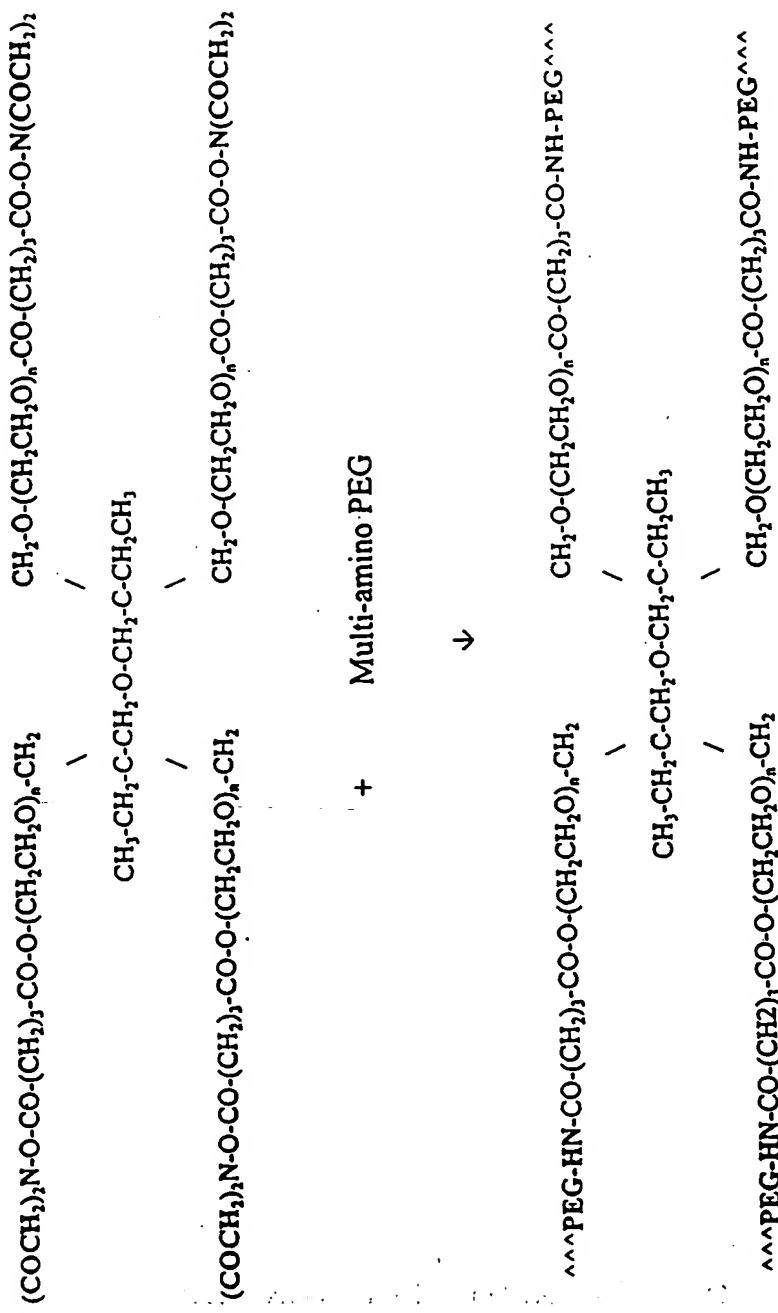


Fig. 3b

SG-PEG: Tetrafunctionally Activated PEG Succinimidyl Glutarate



SE-PEG, m=3: Tetrafunctionally Activated PEG Succinimidyl Butylate (Ether Linkage)

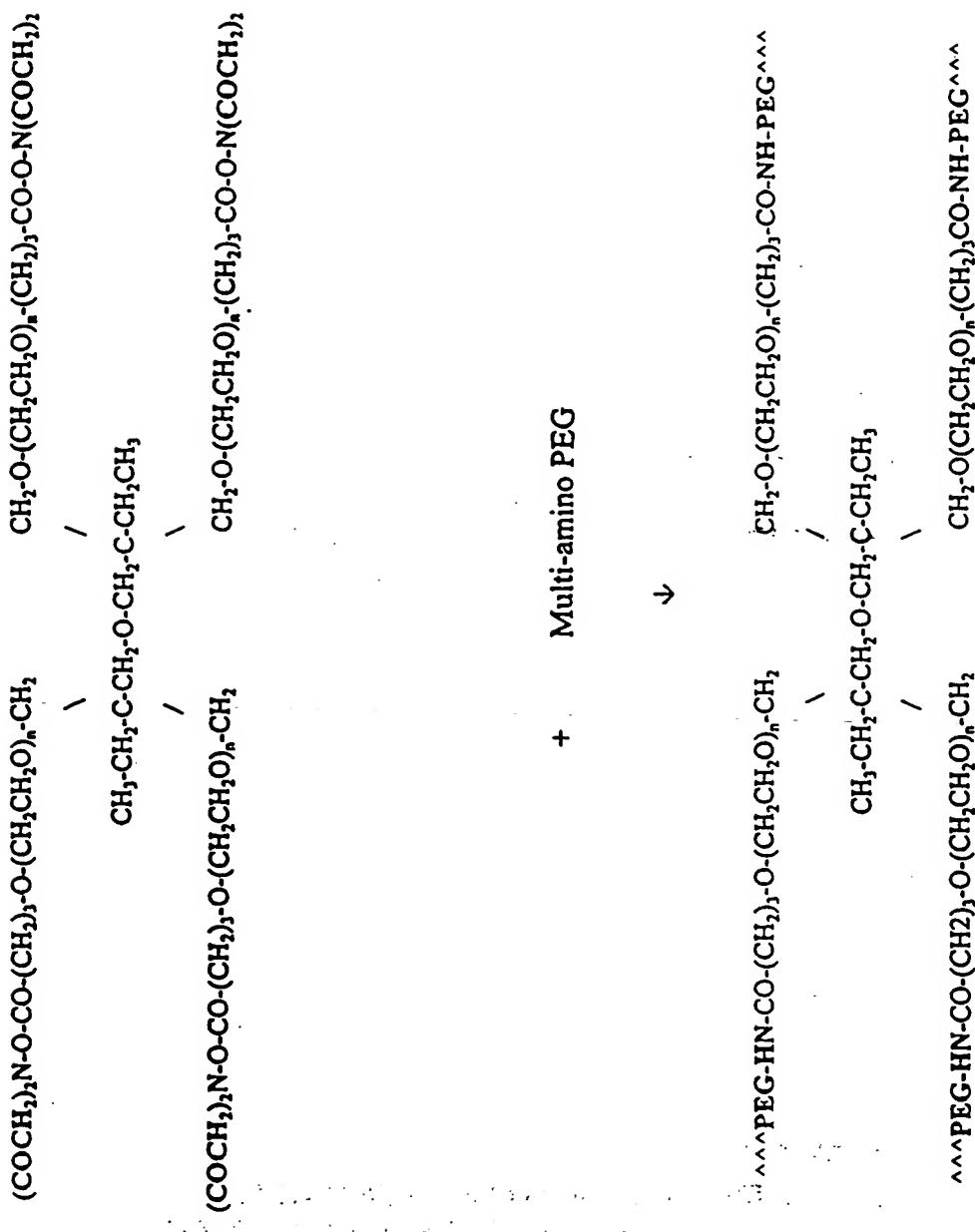
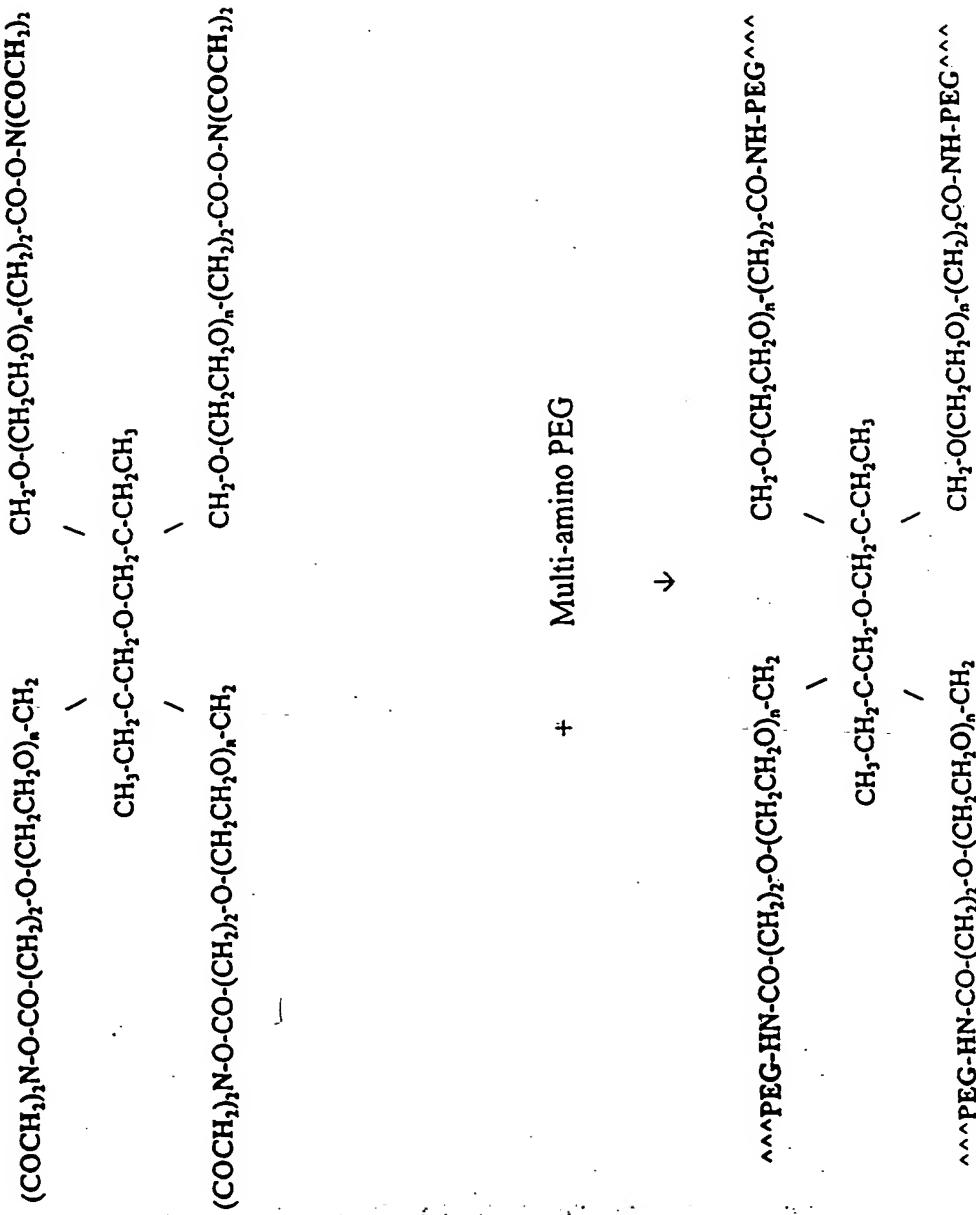


Fig. 5

SE-PEG<sub>n</sub>=2 Tetrafunctionally Activated PEG Succinimidyl Butyrate (Ether Linkage)



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SE-PEG, n=1 Tetrafunctionally Activated PEG Succinimidyl Acetate (Ether Linkage)

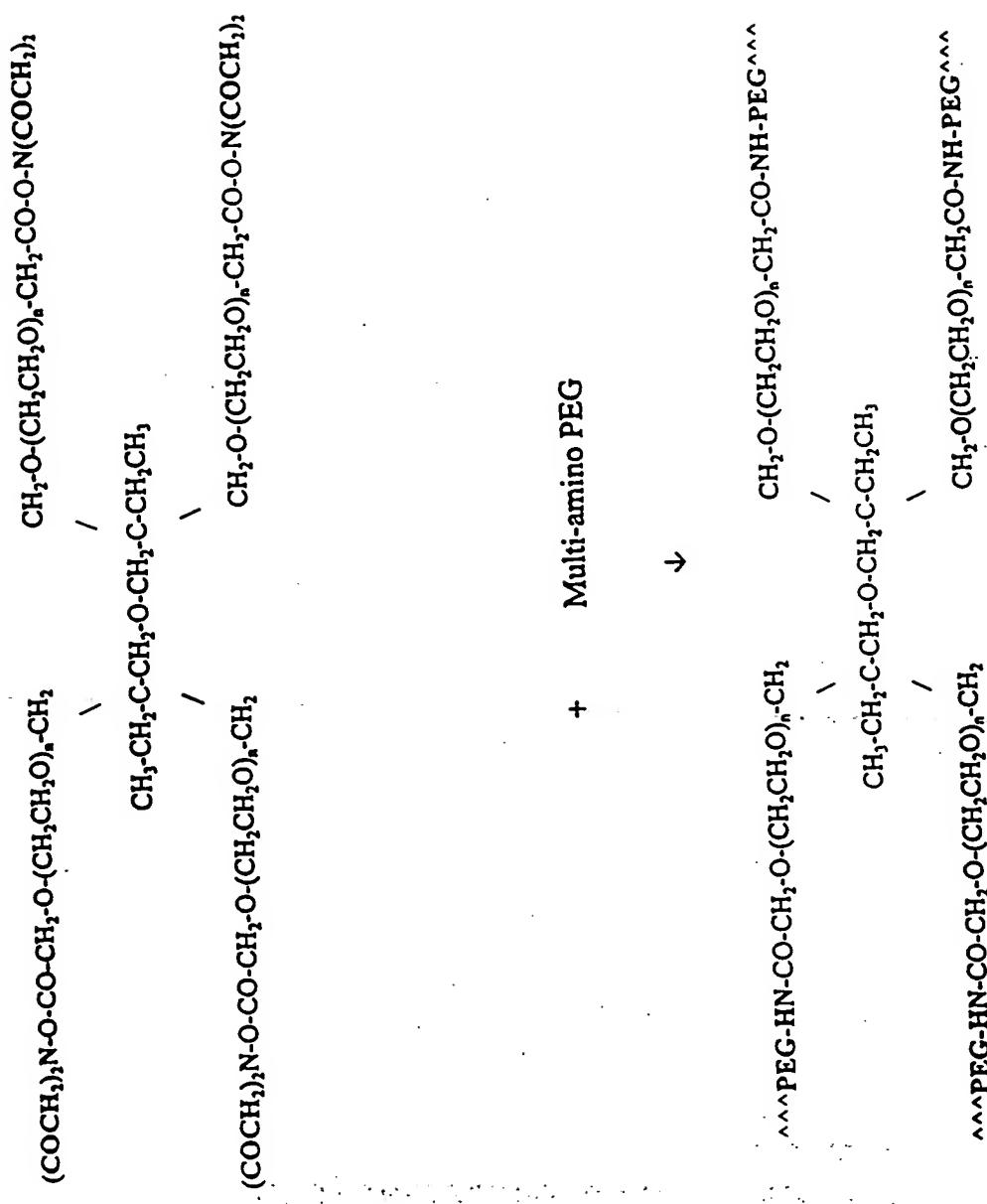


Fig. 7

**SSA-PEG, m=2: Tetrafunctionally Activated PEG Succinimidyl Succinamide**

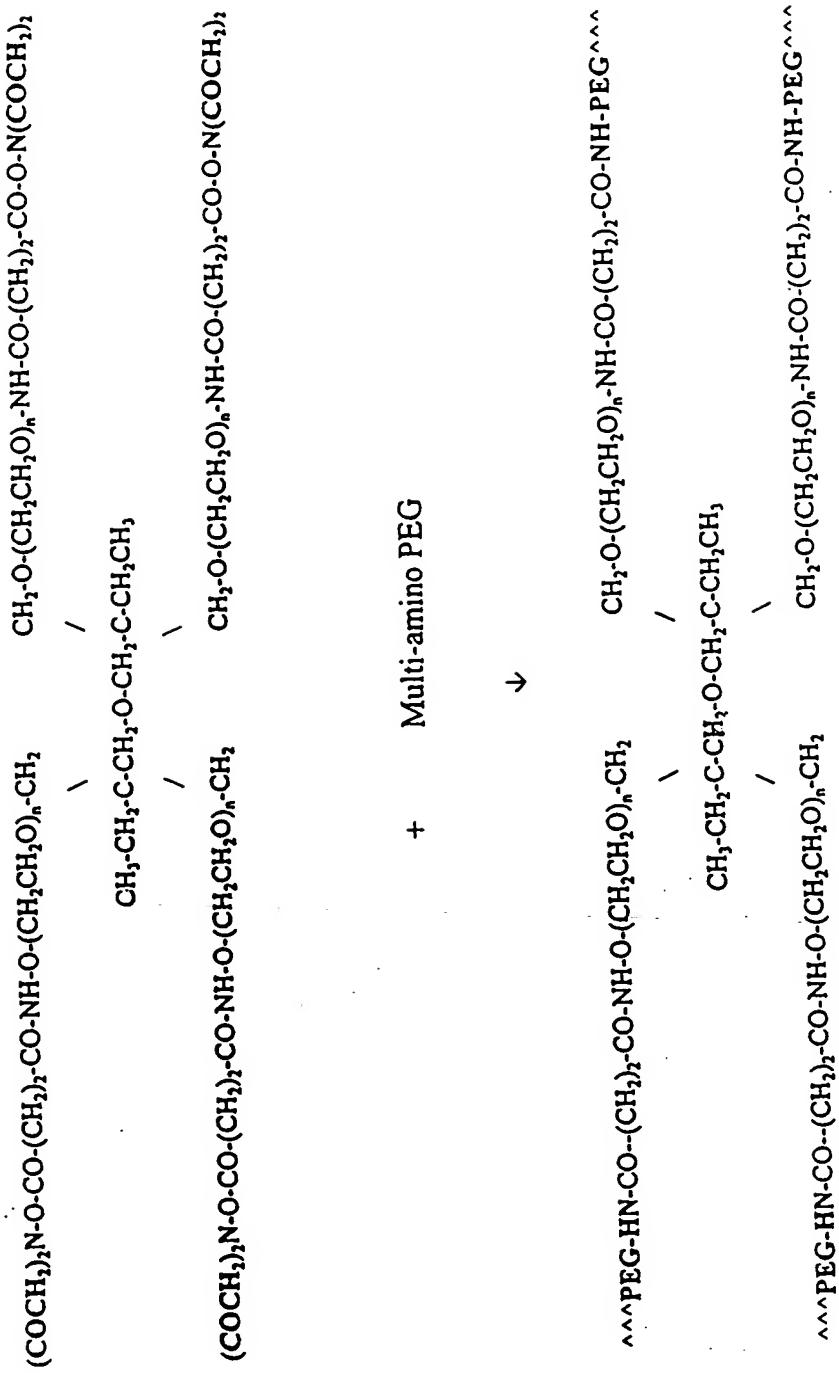


Fig. 8

SC-PEG, m=0: Tetrafunctionally Activated PEG Succinimidyl Carbonate

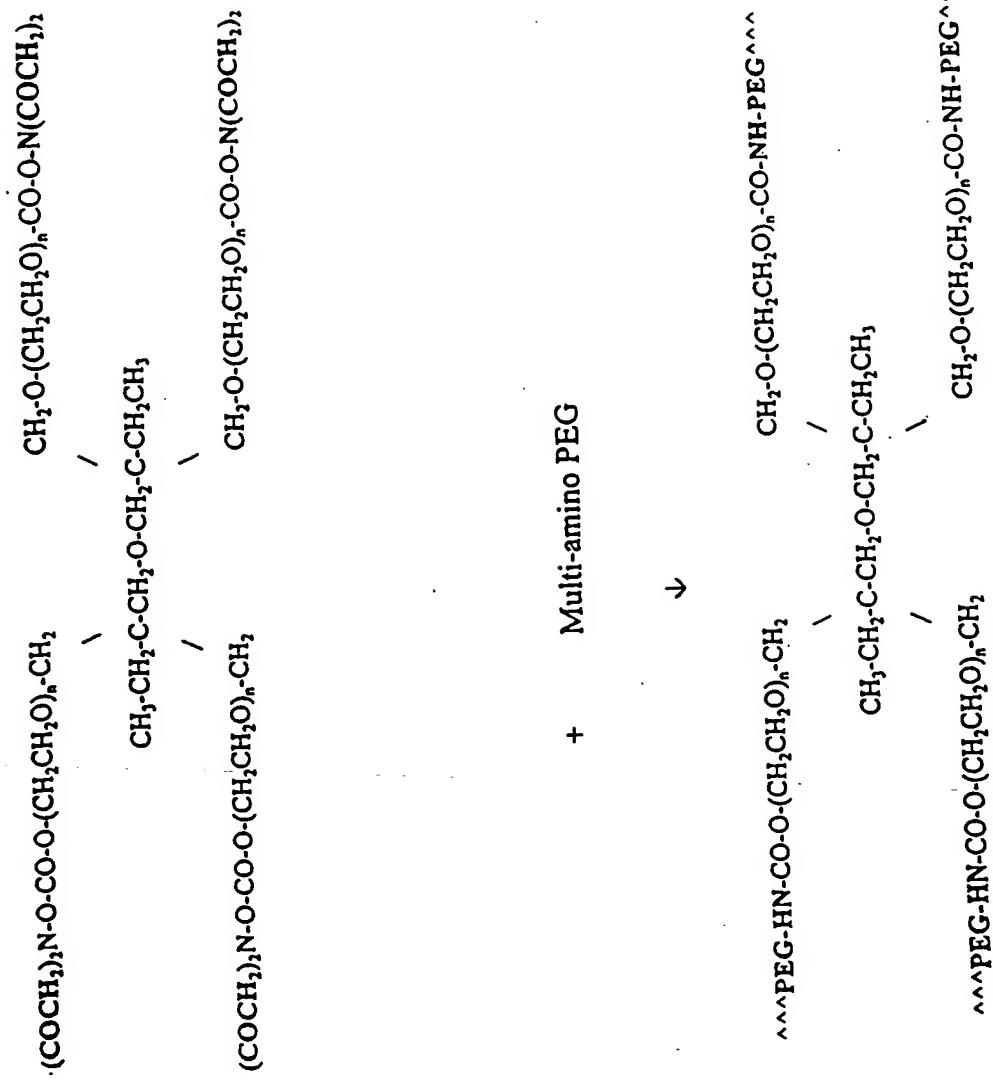


Fig. 9

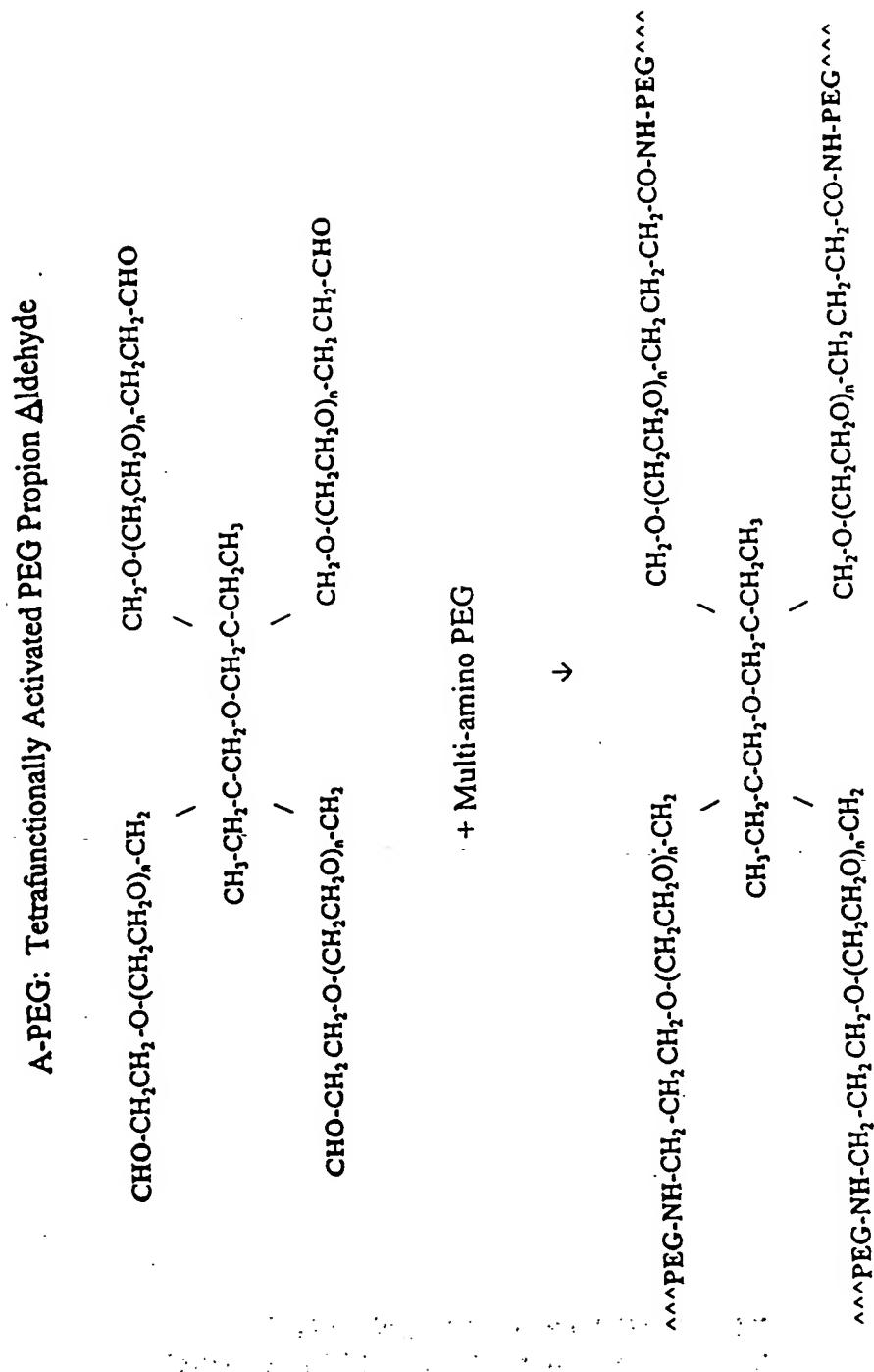


Fig. 10

## E-PEG: Tetrafunctionally Activated PEG Glycidyl Ether

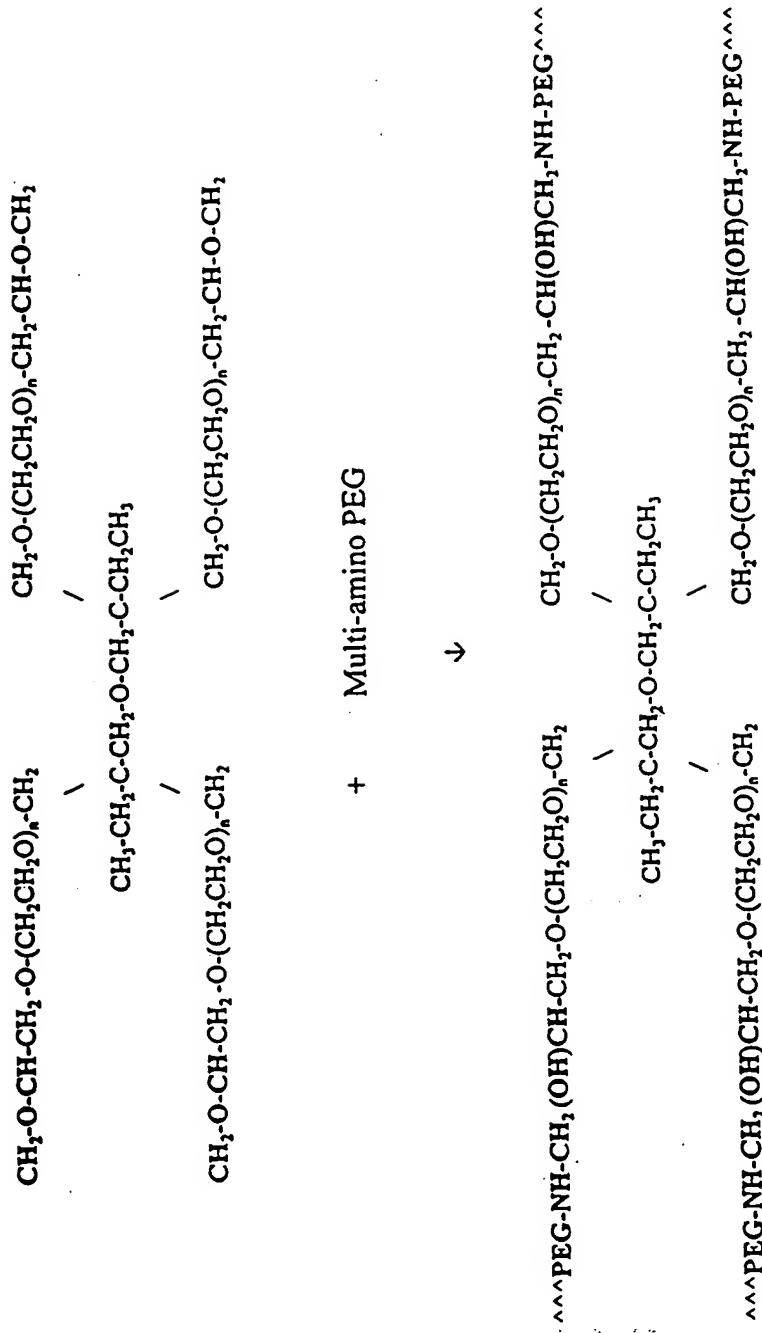


Fig. 11

## I-PEG: Tetrafunctionally Activated PEG Isocyanate

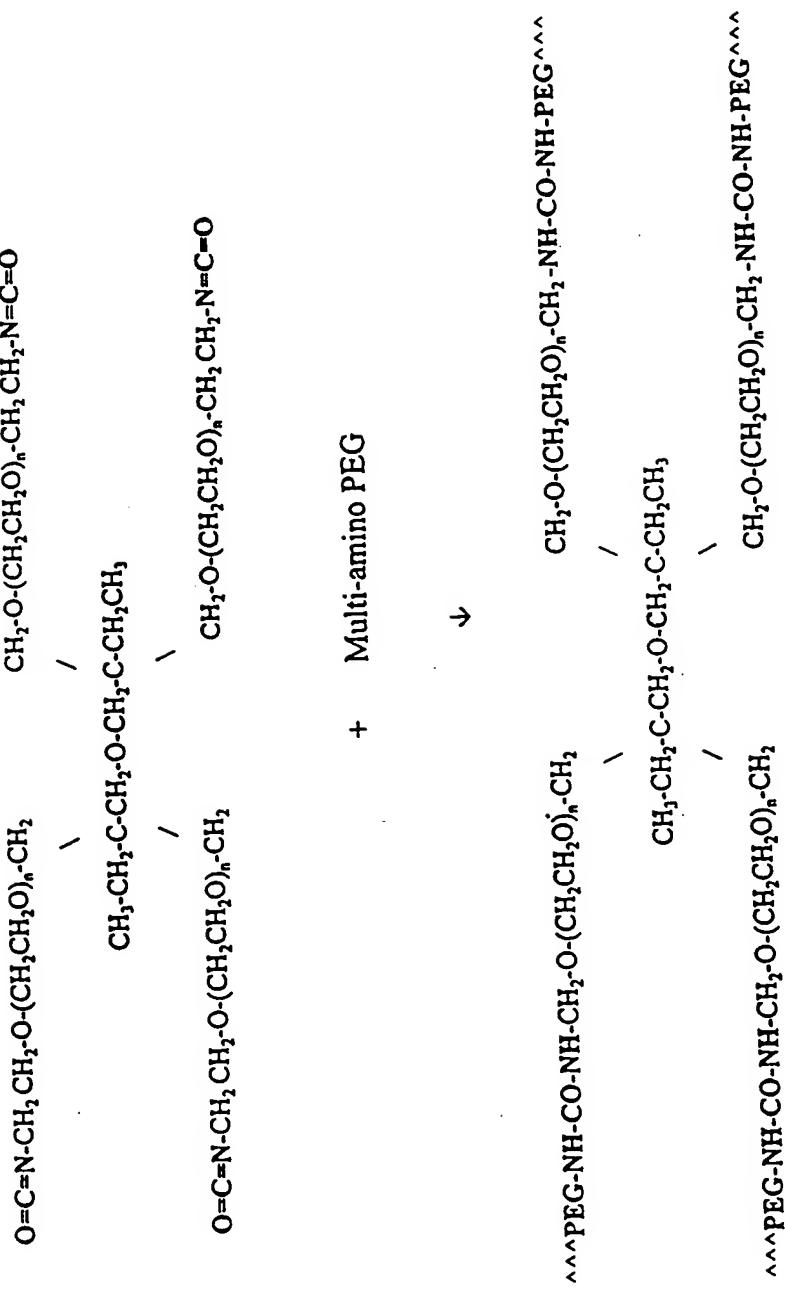


Fig. 12

## V-PEG: Tetrafunctionally Activated PEG Vinylsulfone

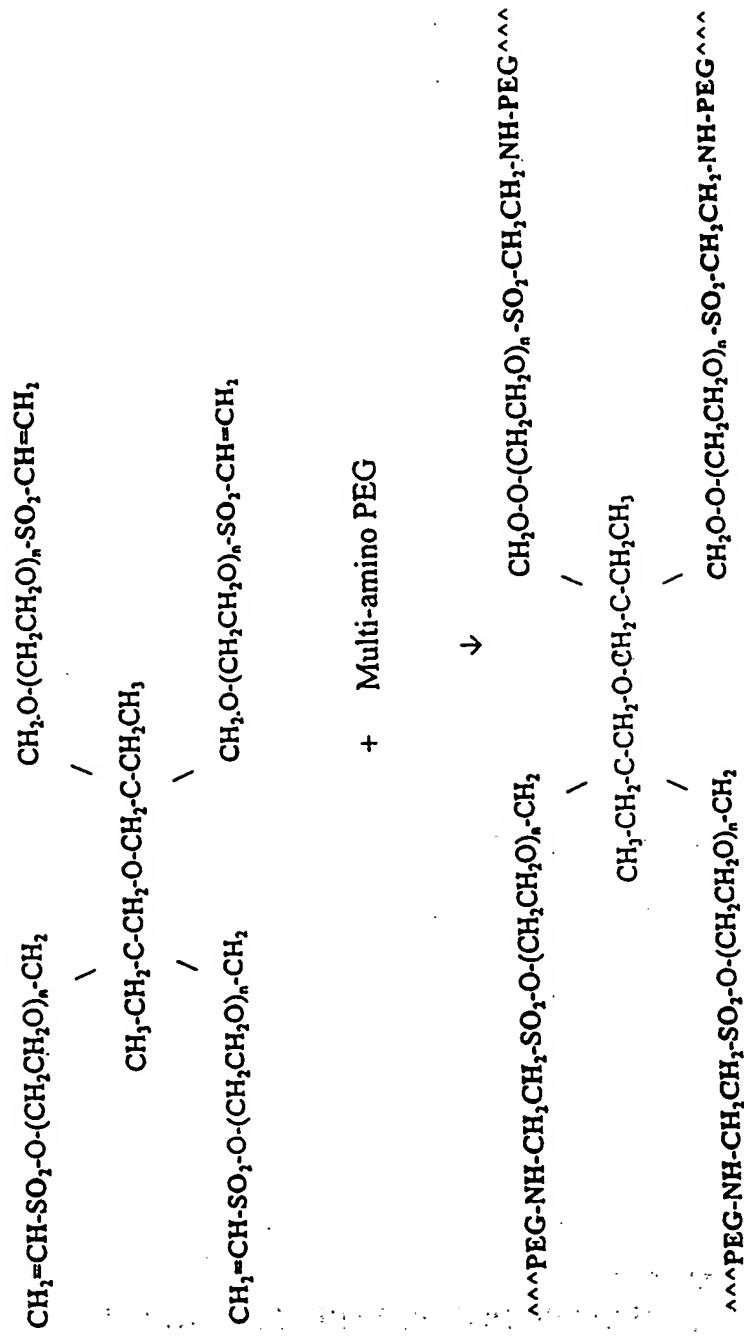


Fig. 13

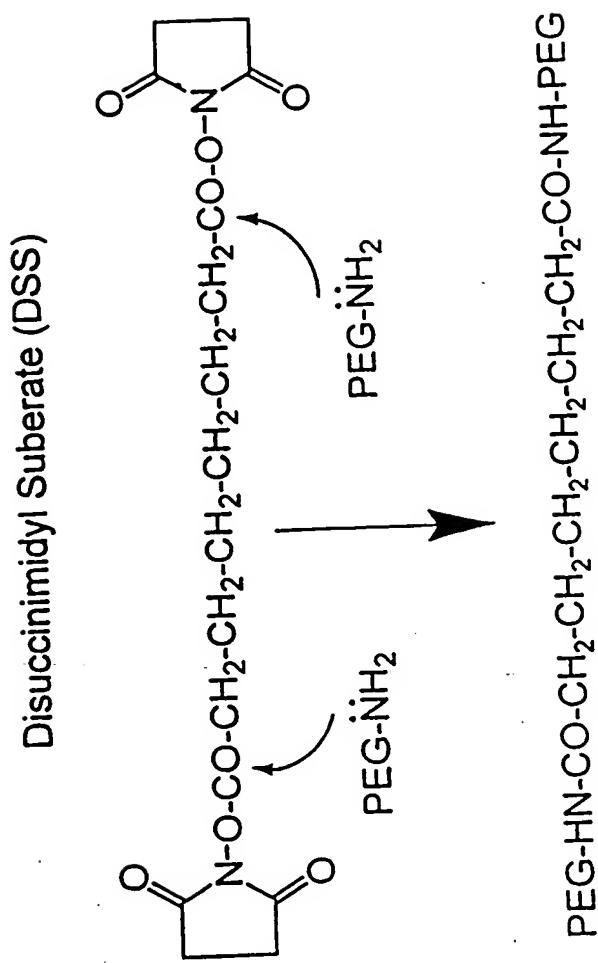
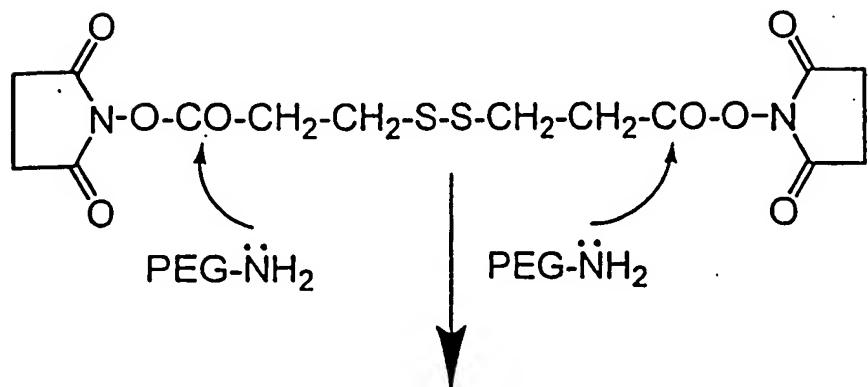


Fig. 14

## Dithiobis(succinimidylpropionate) (DSP)



PEG-HN-CO-CH<sub>2</sub>-CH<sub>2</sub>-S-S-CH<sub>2</sub>-CH<sub>2</sub>-CO-NH-PEG

Fig. 15

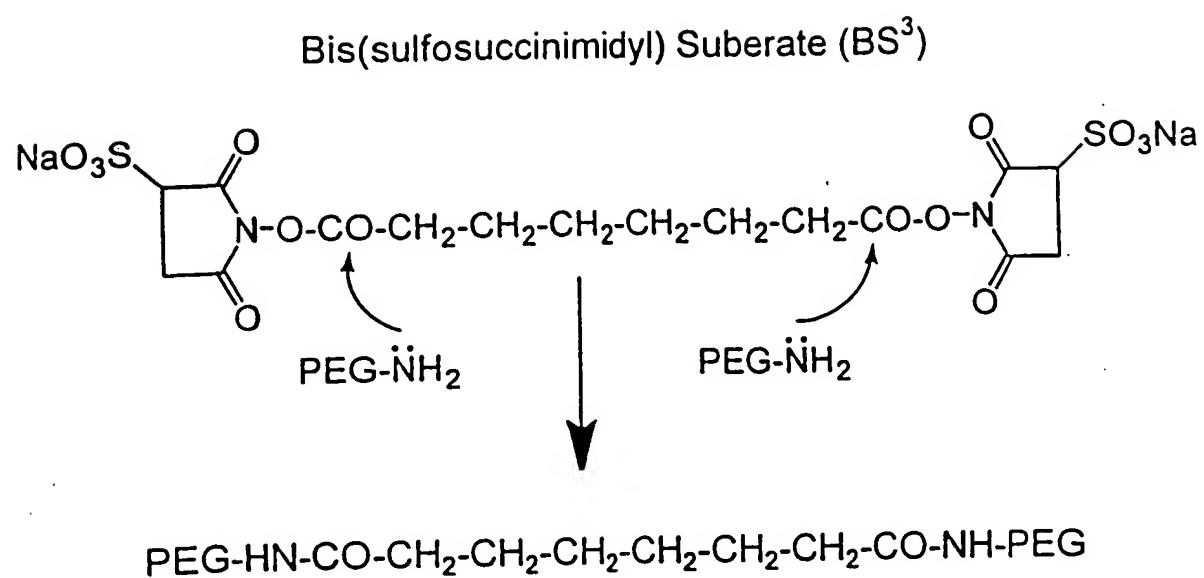


Fig. 16

Bis(2-succinimidooxycarbonyloxy)ethyl Sulfone (BSOCOES)

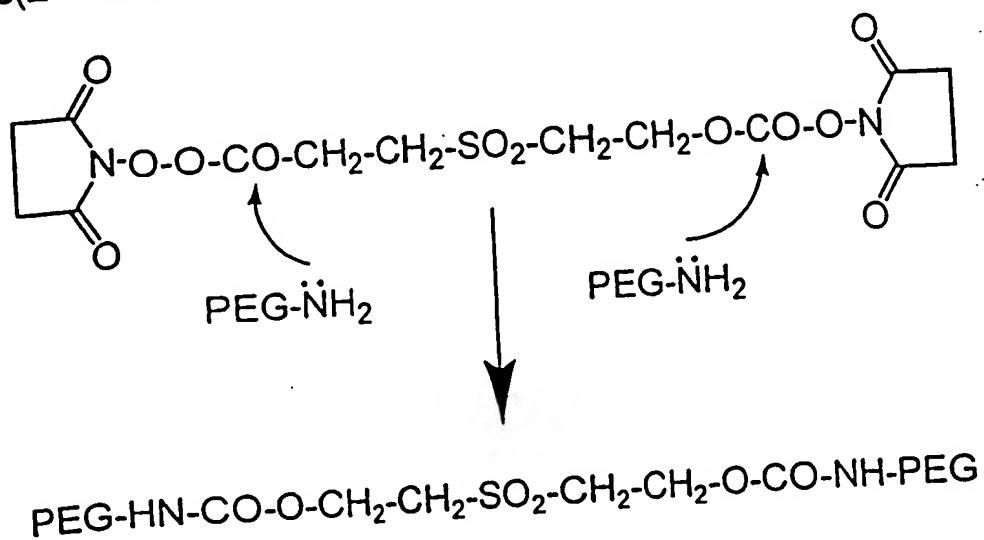


Fig. 17

3,3'-Dithiobis(sulfosuccinimidyl-propionate) (DTSSP)

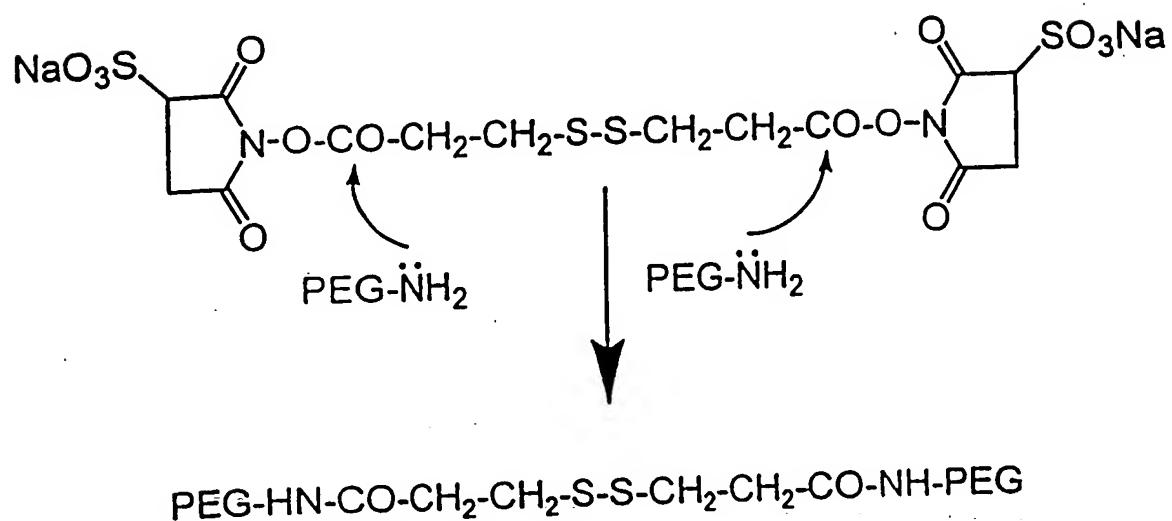


Fig. 18